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15 November 2010

Chris Ritchie
Manager – Industry
Major Project Assessment
Department of Planning
23-33 Bridge Street, Sydney
PO Box 39 Sydney NSW 2001

Mr David Gathercole
Sydney Industry
Environment Protection & Regulation Group
Department of Environment, Climate Change and Water
PO Box 668
PARRAMATTA NSW 2124

Subject: Botany Car Park Waste Encapsulation (CPWE) Remediation Project
Application to Amend Project Approval 06_0197

Dear Chris and David

Orica herewith makes application for modification to the CPWE Remediation Project under sections 75W of the Environmental Planning and Assessment (EP&A) Act 1979 and Section 58 of the Protection of the Environment Operations (POEO) Act 1997.

The Project was approved on 12 November 2009 under section 75J of the EP&A Act 1979 (Project Approval 06_0197). On 27 May 2010, the project was licensed under Section 55 of the POEO Act 1997 (EPL 13263).

Orica is seeking modifications to allow for the treatment of other contaminated soil and concrete from locations on the Botany Industrial Park (BIP), other than the CPWE.

1. Justification

The Directly-heated Thermal Desorption (DTD) plant, currently being pre-commissioned at Botany, is designed to treat approximately 70,000 tonnes of contaminated soil from the CPWE.

Other contaminated material, suitable for processing in the DTD, is located on the BIP, as follows:

Location	Material	Estimated Tonnes	Maximum Measured Concentration (mg/kg)		
			HCB	HCBD	Mercury
HCB Stores	Concrete	480	260	4.7	1.4
	Soil	490	1,200	11	-
		970			
<i>For comparison:</i>					
CPWE	Soil	70,000	641	11,700	14.7

Analytical reports are attached, providing details of all contaminants found in the materials.

Orica notes that:

- Other chlorinated hydrocarbons in the materials were all under 130 mg/kg.
- HCB is equally as treatable in the DTD plant as HCBD.

Orica requests approval to process through the DTD up to 1,000 tonnes of additional materials from the BIP HCB stores.

The request is justified as follows:

- The material is currently included in the HCB store inventory, i.e. it is not extra waste previously not reported.
- It represents only 1.5% of the quantity of material currently approved for processing, adding a mere 2-3 days to the DTD operating period.
- The concentration of contaminants is well below that currently approved for processing. This also means that there is no need to relook at the Air Quality Assessment, Human Health Impact Assessment and other studies in the original Environmental Assessment.
- It is better to deal with this material while the DTD, which is owned by Thiess Services, is still on the project and not relocated elsewhere.
- We cannot export the waste to Denmark if it can be treated locally.
- No transport on public roads is required.
- The details were presented to the Community Participation and Review Committee (CPRC) on 8 November 2010 and there were no objections to it. The only concern the CPRC raised was ensuring that there was clear communication with the broader community regarding the modification proposal. A 30 working day "exhibition" period (avoiding the Christmas to Australia Day period) was requested by the CPRC.

2. Current Restrictions

Certain Conditions currently restrict the treatment of materials beyond the CPWE and immediate surrounding area (Approval Conditions 8 and 9) as well as the handling and transport of materials beyond the ESB and FSB access route (EPL Condition O9.1). The Conditions are as follows:

Project Approval 06_0197

8. *The Proponent shall only process materials from the CPWE site through the treatment plant and shall not receive any contaminated material from off-site for the purposes of treatment.*

Note: treatment of contaminated material from other sites is subject to separate approval.

EPL 13263

- O9.1. *All excavation, loading, unloading, handling and testing involving contaminated soil must only occur within the ESB and FSB.*

Note: For this scheduled activity to be undertaken contaminated soil may be appropriately transported between the ESB and FSB for treatment purposes

3. Proposed Rewording

To facilitate the proposed treatment of selected other materials, Orica provides suggested wording on the modifications outlined below.

Project Approval 06_0197

8. *'Except as noted below, the proponent shall only process materials from the CPWE site through the treatment plant and shall not receive any contaminated material from off-site for the purposes of treatment.*

The Proponent is permitted to process up to 1,000 tonnes of additional contaminated concrete and soil from HCB stores on the Botany Industrial Park, providing the total concentration of contaminants does not exceed those in the CPWE and all other conditions of this Approval are maintained.'

EPL 13263

- O9.1. *All excavation, loading, unloading, handling and testing involving contaminated soil must only occur within the ESB and FSB.*

Note: For this scheduled activity to be undertaken contaminated materials may be appropriately transported between the ESB and FSB as well as from locations storing other BIP materials for treatment purposes

4. Other Commitments

In line with our communications approach at Botany, Orica intends to communicate with the community on the modification via our usual tools: newsletters, website, regular community meetings and our monthly newspaper columns.

In addition, Orica commits to a 30 working day public exhibition period, which we could arrange directly or through the Department of Planning channels that usually accompany a major development. We would need that period to be complete by end February 2011 and the revised Project Approval issued by end March 2011 in order to schedule the processing of the materials through the DTD while it is on site.

Yours truly,



Peter O'Dea
Project Manager

Appendix – Analytical Reports



ANALYTICAL REPORT

28 June 2010

Orica GTP Plant

16-20 Beauchamp Road

MATRAVILLE

NSW 2036

Attention: Sylvia Huo

Your Reference: GTP1006158

Our Reference: SE79230

Samples: 3 Concretes

Received: 18/06/2010

Preliminary Report Sent: 24/06/2010

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

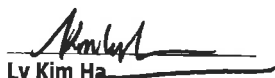
Sample Receipt: Angela Mamalicos

AU.SampleReceipt.Sydney@sgs.com

Production Manager: Huong Crawford

Huong.Crawford@sgs.com

Results Approved and/or Authorised by:


Ly Kim Ha
Organics Signatory


Huong Crawford
Metals Signatory



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Page 1 of 14

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VOCs in Soil - 72 List Our Reference: Your Reference	UNITS -----	SE79230-1 GTP100615 8-1, HCB Plant - Tank A2	SE79230-2 GTP100615 8-2, HCB Plant - Tank A2	SE79230-3 GTP100615 8-3, HCB Plant - Tank A2
Sample Matrix Date Sampled Time Sample Taken	-----	Concrete 18/06/2010 08:30am	Concrete 18/06/2010 08:30am	Concrete 18/06/2010 08:30am
Date Extracted		22/06/2010	22/06/2010	22/06/2010
Date Analysed		22/06/2010	22/06/2010	22/06/2010
Dichlorodifluoromethane (CFC-12)	mg/kg	<10	<10	<10
Chloromethane	mg/kg	<10	<10	<10
Vinyl Chloride (chloroethene)	mg/kg	<1	<1	<1
Bromomethane	mg/kg	<10	<10	<10
Chloroethane	mg/kg	<10	<10	<10
Trichlorofluoromethane	mg/kg	<10	<10	<10
Acetone (2-propanone)	mg/kg	<10	<10	<10
1,1-Dichloroethene	mg/kg	<1	<1	<1
Methyl Iodine (iodomethane)	mg/kg	<50	<50	<50
Acrylonitrile	mg/kg	<1	<1	<1
Methylene Chloride (DCM)	mg/kg	<5	<5	<5
Allyl Chloride	mg/kg	<1	<1	<1
Carbon Disulphide	mg/kg	<5	<5	<5
<i>trans</i> -1,2-Dichloroethene	mg/kg	<1	<1	<1
Methyl- <i>tert</i> -butyl ether (MtBE)	mg/kg	<5	<5	<5
1,1-Dichloroethane	mg/kg	1.8	<1	<1
2-Butanone (MEK)	mg/kg	<100	<100	<100
<i>cis</i> -1,2-Dichloroethene	mg/kg	<1	<1	<1
Bromochloromethane	mg/kg	<1	<1	<1
Chloroform	mg/kg	8.7	<1	<1
2,2-Dichloropropane	mg/kg	<1	<1	<1
1,2-Dichloroethane	mg/kg	20	1.1	<1
1,1,1-Trichloroethane	mg/kg	<1	<1	<1
1,1-Dichloropropene	mg/kg	<1	<1	<1
Carbon tetrachloride	mg/kg	12	1.4	<1
Benzene	mg/kg	<1	<1	<1
Dibromomethane	mg/kg	<1	<1	<1
1,2-Dichloropropane	mg/kg	<1	<1	<1
Trichloroethene (TCE)	mg/kg	12	1.3	<1
2-Nitropropane	mg/kg	<100	<100	<100
Bromodichloromethane	mg/kg	<1	<1	<1
<i>cis</i> -1,3-Dichloropropene	mg/kg	<1	<1	<1
4-Methyl-2-Pentanone (MIBK)	mg/kg	<10	<10	<10



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VOCs in Soil - 72 List Our Reference: Your Reference Sample Matrix Date Sampled Time Sample Taken	UNITS ----- -----	SE79230-1 GTP100615 8-1, HCB Plant - Tank A2 Concrete 18/06/2010 08:30am	SE79230-2 GTP100615 8-2, HCB Plant - Tank A2 Concrete 18/06/2010 08:30am	SE79230-3 GTP100615 8-3, HCB Plant - Tank A2 Concrete 18/06/2010 08:30am
<i>trans</i> -1,3-Dichloropropene	mg/kg	<1	<1	<1
1,1,2-Trichloroethane	mg/kg	6.3	<1	<1
Toluene	mg/kg	<1	<1	<1
1,3-Dichloropropane	mg/kg	<1	<1	<1
2-Hexanone (MBK)	mg/kg	<50	<50	<50
Dibromochloromethane	mg/kg	<1	<1	<1
1,2-Dibromoethane (EDB)	mg/kg	<1	<1	<1
Tetrachloroethene (PCE-perchloroethylen)	mg/kg	53	6.5	2.0
1,1,1,2-Tetrachloroethane	mg/kg	<1	<1	<1
Chlorobenzene	mg/kg	2.1	<1	<1
Ethyl benzene	mg/kg	<1	<1	<1
Bromoform	mg/kg	<1	<1	<1
<i>m/p</i> -Xylenes	mg/kg	<2	<2	<2
Cis-1,4-dichloro-2-butene	mg/kg	<10	<10	<10
Styrene (vinyl benzene)	mg/kg	<1	<1	<1
1,1,2,2-Tetrachloroethane	mg/kg	<1	<1	<1
<i>o</i> -Xylene	mg/kg	<1	<1	<1
1,2,3-Trichloropropane	mg/kg	<1	<1	<1
Trans-1,4-dichloro-2-butene	mg/kg	<10	<10	<10
Isopropylbenzene (Cumene)	mg/kg	<1	<1	<1
Bromobenzene	mg/kg	<1	<1	<1
<i>n</i> -Propylbenzene	mg/kg	<1	<1	<1
2-Chlorotoluene	mg/kg	<1	<1	<1
4-Chlorotoluene	mg/kg	<1	<1	<1
1,3,5-Trimethylbenzene	mg/kg	<1	<1	<1
<i>tert</i> -Butylbenzene	mg/kg	<1	<1	<1
1,2,4-Trimethylbenzene	mg/kg	<1	<1	<1
<i>sec</i> -Butylbenzene	mg/kg	<1	<1	<1
1,3-Dichlorobenzene	mg/kg	1.3	<1	<1
1,4-Dichlorobenzene	mg/kg	6.0	2.0	<1
<i>p</i> -Isopropyl toluene	mg/kg	<1	<1	<1
1,2-Dichlorobenzene	mg/kg	3.4	1.4	<1
<i>n</i> -Butylbenzene	mg/kg	<1	<1	<1
1,2-Dibromo-3-chloropropane	mg/kg	<1	<1	<1
1,2,4-Trichlorobenzene	mg/kg	43	33	4.7
Naphthalene	mg/kg	3.4	3.5	<1



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VOCs in Soil - 72 List Our Reference: Your Reference	UNITS -----	SE79230-1 GTP100615 8-1, HCB Plant - Tank A2	SE79230-2 GTP100615 8-2, HCB Plant - Tank A2	SE79230-3 GTP100615 8-3, HCB Plant - Tank A2
Sample Matrix Date Sampled Time Sample Taken	-----	Concrete 18/06/2010 08:30am	Concrete 18/06/2010 08:30am	Concrete 18/06/2010 08:30am
Hexachlorobutadiene	mg/kg	2.4	1.9	<1
1,2,3-Trichlorobenzene	mg/kg	6.7	6.1	1.1
Vinyl acetate	mg/kg	<100	<100	<100
Dibromofluoromethane	%	101	98	97
1,2-Dichloroethane-d4	%	106	100	98
Toluene-d8 Surrogate 2	%	101	102	98
4-Bromofluorobenzene Surrogate 3	%	90	90	89



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OC Pesticides in Soil Our Reference: Your Reference	UNITS -----	SE79230-1 GTP100615 8-1, HCB Plant - Tank A2	SE79230-2 GTP100615 8-2, HCB Plant - Tank A2	SE79230-3 GTP100615 8-3, HCB Plant - Tank A2
Sample Matrix Date Sampled Time Sample Taken	-----	Concrete 18/06/2010 08:30am	Concrete 18/06/2010 08:30am	Concrete 18/06/2010 08:30am
Date Extracted		23/06/2010	23/06/2010	23/06/2010
Date Analysed		23/06/2010	23/06/2010	23/06/2010
Hexachlorobenzene (HCB)	mg/kg	21	29	9.0
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	#	#	#



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8270 SVOC SGS NATIONAL Our Reference: Your Reference	UNITS -----	SE79230-1 GTP100615 8-1, HCB Plant - Tank A2	SE79230-2 GTP100615 8-2, HCB Plant - Tank A2	SE79230-3 GTP100615 8-3, HCB Plant - Tank A2
Sample Matrix Date Sampled Time Sample Taken	-----	Concrete 18/06/2010 08:30am	Concrete 18/06/2010 08:30am	Concrete 18/06/2010 08:30am
Date Extracted (SVOC)		23/06/2010	23/06/2010	23/06/2010
Date Analysed (SVOC)		23/06/2010	23/06/2010	23/06/2010
1.2.4-Trichlorobenzene	mg/kg	27	15	2.7
1.2.4.5-Tetrachlorobenzene	mg/kg	11	7.2	1.5
Pentachlorobenzene	mg/kg	19	16	3.3
p-terphenyl-D14 (Surrogate)	%	78	65	72



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Page 6 of 14

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Metals in Soil by ICP-OES Our Reference: Your Reference	UNITS -----	SE79230-1 GTP100615 8-1, HCB Plant - Tank A2	SE79230-2 GTP100615 8-2, HCB Plant - Tank A2	SE79230-3 GTP100615 8-3, HCB Plant - Tank A2
Sample Matrix Date Sampled Time Sample Taken	-----	Concrete 18/06/2010 08:30am	Concrete 18/06/2010 08:30am	Concrete 18/06/2010 08:30am
Date Extracted (Metals)		24/06/2010	24/06/2010	24/06/2010
Date Analysed (Metals)		24/06/2010	24/06/2010	24/06/2010
Arsenic	mg/kg	<3	3	<3
Cadmium	mg/kg	<0.3	<0.3	<0.3
Chromium	mg/kg	24	34	27
Lead	mg/kg	6	6	8
Nickel	mg/kg	7.1	7.2	6.8



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Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference	UNITS -----	SE79230-1 GTP100615 8-1, HCB Plant - Tank A2	SE79230-2 GTP100615 8-2, HCB Plant - Tank A2	SE79230-3 GTP100615 8-3, HCB Plant - Tank A2
Sample Matrix Date Sampled Time Sample Taken	-----	Concrete 18/06/2010 08:30am	Concrete 18/06/2010 08:30am	Concrete 18/06/2010 08:30am
Date Extracted (Mercury)		24/06/2010	24/06/2010	24/06/2010
Date Analysed (Mercury)		24/06/2010	24/06/2010	24/06/2010
Mercury	mg/kg	<0.05	<0.05	0.05



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Method ID	Methodology Summary
AN433	Volatile Organic Compounds - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-019	Volatile Organic Compounds - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-005	OC/OP/PCB - Determination of a suite of Organochlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
USEPA 8270	USEPA 8270 GCMS.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
VOCs in Soil - 72 List								
Date Extracted				22/06/10	SE79230-1	22/06/2010 22/06/2010	LCS	22/06/10
Date Analysed				22/06/10	SE79230-1	22/06/2010 22/06/2010	LCS	22/06/10
Dichlorodifluoromethane (CFC-12)	mg/kg	1.0	AN433	<1	SE79230-1	<10 <10	[NR]	[NR]
Chloromethane	mg/kg	1.0	AN433	<1	SE79230-1	<10 <10	[NR]	[NR]
Vinyl Chloride (chloroethene)	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
Bromomethane	mg/kg	1.0	AN433	<1	SE79230-1	<10 <10	[NR]	[NR]
Chloroethane	mg/kg	1.0	AN433	<1	SE79230-1	<10 <10	[NR]	[NR]
Trichlorofluoromethane	mg/kg	1.0	AN433	<1	SE79230-1	<10 <10	[NR]	[NR]
Acetone (2-propanone)	mg/kg	10	AN433	<10	SE79230-1	<10 <10	[NR]	[NR]
1,1-Dichloroethene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	LCS	104%
Methyl Iodine (iodomethane)	mg/kg	5	AN433	<5	SE79230-1	<50 <50	[NR]	[NR]
Acrylonitrile	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
Methylene Chloride (DCM)	mg/kg	0.5	AN433	<0.5	SE79230-1	<5 <5	[NR]	[NR]
Allyl Chloride	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
Carbon Disulphide	mg/kg	0.5	AN433	<0.5	SE79230-1	<5 <5	[NR]	[NR]
trans-1,2-Dichloroethene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
Methyl-tert-butyl ether (MtBE)	mg/kg	0.5	AN433	<0.5	SE79230-1	<5 <5	[NR]	[NR]
1,1-Dichloroethane	mg/kg	0.1	AN433	<0.1	SE79230-1	1.8 2.8 RPD: 43	[NR]	[NR]
2-Butanone (MEK)	mg/kg	10	AN433	<10	SE79230-1	<100 <100	[NR]	[NR]
cis-1,2-Dichloroethene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
Bromochloromethane	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
Chloroform	mg/kg	0.1	AN433	<0.1	SE79230-1	8.7 5.2 RPD: 50	LCS	72%
2,2-Dichloropropane	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
1,2-Dichloroethane	mg/kg	0.1	AN433	<0.1	SE79230-1	20 10 RPD: 67	LCS	105%
1,1,1-Trichloroethane	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
1,1-Dichloropropene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
Carbon tetrachloride	mg/kg	0.1	AN433	<0.1	SE79230-1	12 8.4 RPD: 35	[NR]	[NR]
Benzene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	LCS	94%
Dibromomethane	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
1,2-Dichloropropane	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
Trichloroethene (TCE)	mg/kg	0.1	AN433	<0.1	SE79230-1	12 7.7 RPD: 44	LCS	98%
2-Nitropropane	mg/kg	10	AN433	<10	SE79230-1	<100 <100	[NR]	[NR]
Bromodichloromethane	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]



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VOCs in Soil - 72 List								
<i>cis</i> -1,3-Dichloropropene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
4-Methyl-2-Pentanone (MIBK)	mg/kg	1.0	AN433	<1	SE79230-1	<10 <10	[NR]	[NR]
<i>trans</i> -1,3-Dichloropropene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
1,1,2-Trichloroethane	mg/kg	0.1	AN433	<0.1	SE79230-1	6.3 6.1 RPD: 3	[NR]	[NR]
Toluene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	LCS	103%
1,3-Dichloropropane	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
2-Hexanone (MBK)	mg/kg	5	AN433	<5	SE79230-1	<50 <50	[NR]	[NR]
Dibromochloromethane	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
1,2-Dibromoethane (EDB)	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
Tetrachloroethene (PCE-perchloroethylen)	mg/kg	0.1	AN433	<0.1	SE79230-1	53 44 RPD: 19	[NR]	[NR]
1,1,1,2-Tetrachloroethane	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
Chlorobenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	2.1 1.7 RPD: 21	LCS	116%
Ethyl benzene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	LCS	111%
Bromoform	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
<i>m/p</i> -Xylenes	mg/kg	0.2	AN433	<0.2	SE79230-1	<2 <2	LCS	117%
<i>Cis</i> -1,4-dichloro-2-butene	mg/kg	1	AN433	<1	SE79230-1	<10 <10	[NR]	[NR]
Styrene (vinyl benzene)	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
1,1,2,2-Tetrachloroethane	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
<i>o</i> -Xylene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	LCS	109%
1,2,3-Trichloropropane	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
<i>Trans</i> -1,4-dichloro-2-butene	mg/kg	1.0	AN433	<1	SE79230-1	<10 <10	[NR]	[NR]
Isopropylbenzene (Cumene)	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
Bromobenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
<i>n</i> -Propylbenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
2-Chlorotoluene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
4-Chlorotoluene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
1,3,5-Trimethylbenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
<i>tert</i> -Butylbenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
1,2,4-Trimethylbenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
<i>sec</i> -Butylbenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
1,3-Dichlorobenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	1.3 1.6 RPD: 21	[NR]	[NR]
1,4-Dichlorobenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	6.0 5.7 RPD: 5	[NR]	[NR]
<i>p</i> -Isopropyl toluene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
VOCs in Soil - 72 List								
1,2-Dichlorobenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	3.4 3.4 RPD: 0	[NR]	[NR]
n-Butylbenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
1,2-Dibromo-3-chloropropane	mg/kg	0.1	AN433	<0.1	SE79230-1	<1 <1	[NR]	[NR]
1,2,4-Trichlorobenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	43 46 RPD: 7	[NR]	[NR]
Naphthalene	mg/kg	0.1	AN433	<0.1	SE79230-1	3.4 3.7 RPD: 8	[NR]	[NR]
Hexachlorobutadiene	mg/kg	0.1	AN433	<0.1	SE79230-1	2.4 2.5 RPD: 4	[NR]	[NR]
1,2,3-Trichlorobenzene	mg/kg	0.1	AN433	<0.1	SE79230-1	6.7 7.4 RPD: 10	[NR]	[NR]
Vinyl acetate	mg/kg	10	AN433	<10	SE79230-1	<100 <100	[NR]	[NR]
Dibromofluoromethane	%	0	SEO-019	93	SE79230-1	101 101 RPD: 0	LCS	96%
1,2-Dichloroethane-d4	%	0	SEO-019	90	SE79230-1	106 103 RPD: 3	LCS	101%
Toluene-d8 Surrogate 2	%	0	SEO-019	107	SE79230-1	101 103 RPD: 2	LCS	99%
4-Bromofluorobenzene Surrogate 3	%	0	SEO-019	87	SE79230-1	90 91 RPD: 1	LCS	95%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
OC Pesticides in Soil				
Date Extracted				23/06/2010
Date Analysed				23/06/2010
Hexachlorobenzene (HCB)	mg/kg	0.1	SEO-005	<0.1
2,4,5,6-Tetrachloro-m-xylene (Surrogate)	%	0	SEO-005	126

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
8270 SVOC SGS NATIONAL								
Date Extracted (SVOC)				23/06/2010	SE79230-1	23/06/2010 23/06/2010	LCS	23/06/2010
Date Analysed (SVOC)				23/06/2010	SE79230-1	23/06/2010 23/06/2010	LCS	23/06/2010
1,2,4-Trichlorobenzene	mg/kg	0.5	USEPA 8270	<0.5	SE79230-1	27 24 RPD: 12	[NR]	[NR]
1,2,4,5-Tetrachlorobenzene	mg/kg	0.5	USEPA 8270	<0.5	SE79230-1	11 10 RPD: 10	LCS	100%
Pentachlorobenzene	mg/kg	0.5	USEPA 8270	<0.5	SE79230-1	19 17 RPD: 11	[NR]	[NR]
p-terphenyl-D14 (Surrogate)	%	10	USEPA 8270	80	SE79230-1	78 72 RPD: 8	LCS	85%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				24/06/2010	[NT]	[NT]	LCS	24/06/2010
Date Analysed (Metals)				24/06/2010	[NT]	[NT]	LCS	24/06/2010
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	98%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	100%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	101%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	100%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	101%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				24/06/2010	[NT]	[NT]	LCS	24/06/2010
Date Analysed (Mercury)				24/06/2010	[NT]	[NT]	LCS	24/06/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	109%



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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting

[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

VOC- LOR raised due to sample matrix interference. Duplicates not match within acceptance QC criteria due to sample matrix interference.

OC-SURROGATE NOT REPORTED DUE TO SAMPLE MATRIX INTERFERENCE.

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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Page 14 of 14

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ANALYTICAL REPORT

1 July 2010

Orica GTP Plant

16-20 Beauchamp Road

MATRAVILLE

NSW 2036

Attention: Sylvia Huo

Your Reference: GTP1006196

Our Reference: SE79383

Samples: 3 Concretes

Received: 25/6/10

Preliminary Report Sent: 30/06/10

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

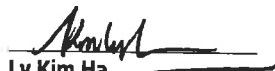
Sample Receipt: Angela Mamalicos

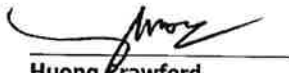
AU.SampleReceipt.Sydney@sgs.com

Production Manager: Huong Crawford

Huong.Crawford@sgs.com

Results Approved and/or Authorised by:


Ly Kim Ha
Organics Signatory


Huong Crawford
Metals Signatory



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OC Pesticides in Soil Our Reference: Your Reference	UNITS -----	SE79383-1 GTP100619 6-1, Store H - TankZ-1	SE79383-2 GTP100619 6-2, Store H - TankZ-2	SE79383-3 GTP100619 6-3, Store H - TankZ-3
Sample Matrix Date Sampled	-----	Concrete 24/06/2010	Concrete 24/06/2010	Concrete 24/06/2010
Date Extracted		29/06/2010	29/06/2010	29/06/2010
Date Analysed		29/06/2010	29/06/2010	29/06/2010
Hexachlorobenzene (HCB)	mg/kg	36	110	21
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	#	#	#



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8270 SVOC SGS NATIONAL Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE79383-1 GTP100619 6-1, Store H - TankZ-1 Concrete 24/06/2010	SE79383-2 GTP100619 6-2, Store H - TankZ-2 Concrete 24/06/2010	SE79383-3 GTP100619 6-3, Store H - TankZ-3 Concrete 24/06/2010
Date Extracted (SVOC)		29/06/2010	29/06/2010	29/06/2010
Date Analysed (SVOC)		29/06/2010	29/06/2010	29/06/2010
1.2.4-Trichlorobenzene	mg/kg	11	36	9.1
1.2.4.5-Tetrachlorobenzene	mg/kg	4.0	9.4	3.2
Pentachlorobenzene	mg/kg	6.7	25	9.8
p-terphenyl-D14 (Surrogate)	%	75	80	82



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Metals in Soil by ICP-OES Our Reference: Your Reference	UNITS -----	SE79383-1 GTP100619 6-1, Store H - TankZ-1	SE79383-2 GTP100619 6-2, Store H - TankZ-2	SE79383-3 GTP100619 6-3, Store H - TankZ-3
Sample Matrix Date Sampled	-----	Concrete 24/06/2010	Concrete 24/06/2010	Concrete 24/06/2010
Date Extracted (Metals)		29/06/2010	29/06/2010	29/06/2010
Date Analysed (Metals)		29/06/2010	29/06/2010	29/06/2010
Arsenic	mg/kg	<3	<3	<3
Cadmium	mg/kg	<0.3	<0.3	<0.3
Chromium	mg/kg	33	54	51
Lead	mg/kg	5	5	7
Nickel	mg/kg	9.3	13	12



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Mercury Cold Vapor/Hg Analyser	UNITS	SE79383-1	SE79383-2	SE79383-3
Our Reference:	-----	GTP100619	GTP100619	GTP100619
Your Reference		6-1, Store	6-2, Store	6-3, Store
		H - TankZ-1	H - TankZ-2	H - TankZ-3
Sample Matrix	-----	Concrete	Concrete	Concrete
Date Sampled		24/06/2010	24/06/2010	24/06/2010
Date Extracted (Mercury)		29/06/2010	29/06/2010	29/06/2010
Date Analysed (Mercury)		29/06/2010	29/06/2010	29/06/2010
Mercury	mg/kg	0.06	0.17	0.24



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Method ID	Methodology Summary
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
USEPA 8270	USEPA 8270 GCMS.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD
OC Pesticides in Soil						
Date Extracted				29/06/2010	SE79383-1	29/06/2010 29/06/2010
Date Analysed				29/06/2010	SE79383-1	29/06/2010 29/06/2010
Hexachlorobenzene (HCB)	mg/kg	0.1	SEO-005	<0.1	SE79383-1	36 26 RPD: 32
2,4,5,6-Tetrachloro-m-xylene (Surrogate)	%	0	SEO-005	107	SE79383-1	# #

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
8270 SVOC SGS NATIONAL								
Date Extracted (SVOC)				29/06/2010	SE79383-1	29/06/2010 29/06/2010	LCS	29/06/2010
Date Analysed (SVOC)				29/06/2010	SE79383-1	29/06/2010 29/06/2010	LCS	29/06/2010
1,2,4-Trichlorobenzene	mg/kg	0.5	USEPA 8270	<0.5	SE79383-1	11 8.9 RPD: 21	[NR]	[NR]
1,2,4,5-Tetrachlorobenzene	mg/kg	0.5	USEPA 8270	<0.5	SE79383-1	4.0 3.5 RPD: 13	LCS	77%
Pentachlorobenzene	mg/kg	0.5	USEPA 8270	<0.5	SE79383-1	6.7 6.0 RPD: 11	LCS	106%
p-terphenyl-D14 (Surrogate)	%	10	USEPA 8270	83	SE79383-1	75 75 RPD: 0	LCS	87%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				29/06/2010	[NT]	[NT]	LCS	29/06/2010
Date Analysed (Metals)				29/06/2010	[NT]	[NT]	LCS	29/06/2010
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	99%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	100%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	102%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	101%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	97%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				29/06/2010	[NT]	[NT]	LCS	29/06/2010
Date Analysed (Mercury)				29/06/2010	[NT]	[NT]	LCS	29/06/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	101%



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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting

[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

SURROGATE NOT REPORTED DUE TO SAMPLE MATRIX INTERFERENCE.

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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ANALYTICAL REPORT

20 July 2010

Orica GTP Plant

16-20 Beauchamp Road

MATRAVILLE

NSW 2036

Attention: Sylvia Huo

Your Reference: GTP1007070

Our Reference: SE79833

Samples: 6 Concretes

Received: 14/7/10

Preliminary Report Sent: 16/07/2010

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

Client Services: Simon Matthews

Simon.Matthews@sgs.com

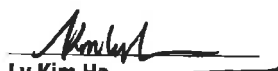
Sample Receipt: Angela Mamalicos

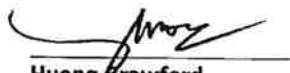
AU.SampleReceipt.Sydney@sgs.com

Laboratory Manager: Edward Ibrahim

Edward.Ibrahim@sgs.com

This report has been authorised by the undersigned:


Ly Kim Ha
Organics Signatory


Huong Crawford
Metals Signatory

OC Pesticides in Soil Our Reference: Your Reference	UNITS -----	SE79833-1 GTP100707 0-1, Tank Q - inner-1	SE79833-2 GTP100707 0-2, Tank Q - inner-2	SE79833-3 GTP100707 0-3, Tank Q - inner-3	SE79833-4 GTP100707 0-4, Tank Q - outer-1	SE79833-5 GTP100707 0-5, Tank Q - outer-2
Sample Matrix Date Sampled	-----	Concrete 9/07/2010	Concrete 9/07/2010	Concrete 9/07/2010	Concrete 9/07/2010	Concrete 9/07/2010
Date Extracted		15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010
Date Analysed		16/07/2010	16/07/2010	16/07/2010	16/07/2010	16/07/2010
Hexachlorobenzene (HCB)	mg/kg	190	210	260	8.3	89
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	#	118	125	72	120

OC Pesticides in Soil Our Reference: Your Reference	UNITS -----	SE79833-6 GTP100707 0-6, Tank Q - outer-3
Sample Matrix Date Sampled	-----	Concrete 9/07/2010
Date Extracted		15/07/2010
Date Analysed		16/07/2010
Hexachlorobenzene (HCB)	mg/kg	24
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	#

8270 SVOC SGS NATIONAL Our Reference: Your Reference	UNITS -----	SE79833-1 GTP100707 0-1, Tank Q - inner-1	SE79833-2 GTP100707 0-2, Tank Q - inner-2	SE79833-3 GTP100707 0-3, Tank Q - inner-3	SE79833-4 GTP100707 0-4, Tank Q - outer-1	SE79833-5 GTP100707 0-5, Tank Q - outer-2
Sample Matrix Date Sampled	-----	Concrete 9/07/2010	Concrete 9/07/2010	Concrete 9/07/2010	Concrete 9/07/2010	Concrete 9/07/2010
Date Extracted (SVOC)		15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010
Date Analysed (SVOC)		15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010
1.2.4-Trichlorobenzene	mg/kg	57	130	89	1.8	29
1.2.4.5-Tetrachlorobenzene	mg/kg	18	32	25	0.9	8.6
Pentachlorobenzene	mg/kg	57	100	78	3.7	24
p-terphenyl-D14 (Surrogate)	%	77	83	77	72	73

8270 SVOC SGS NATIONAL Our Reference: Your Reference	UNITS -----	SE79833-6 GTP100707 0-6, Tank Q - outer-3
Sample Matrix Date Sampled	-----	Concrete 9/07/2010
Date Extracted (SVOC)		15/07/2010
Date Analysed (SVOC)		15/07/2010
1.2.4-Trichlorobenzene	mg/kg	7.1
1.2.4.5-Tetrachlorobenzene	mg/kg	2.2
Pentachlorobenzene	mg/kg	7.7
p-terphenyl-D14 (Surrogate)	%	73

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE79833-1 GTP100707 0-1, Tank Q - inner-1 Concrete 9/07/2010	SE79833-2 GTP100707 0-2, Tank Q - inner-2 Concrete 9/07/2010	SE79833-3 GTP100707 0-3, Tank Q - inner-3 Concrete 9/07/2010	SE79833-4 GTP100707 0-4, Tank Q - outer-1 Concrete 9/07/2010	SE79833-5 GTP100707 0-5, Tank Q - outer-2 Concrete 9/07/2010
Date Extracted (Metals)		15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010
Date Analysed (Metals)		15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010
Arsenic	mg/kg	<3	<3	<3	<3	<3
Cadmium	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
Chromium	mg/kg	52	55	48	8.8	8.1
Lead	mg/kg	4	4	4	4	4
Nickel	mg/kg	38	33	42	5.2	5.0

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE79833-6 GTP100707 0-6, Tank Q - outer-3 Concrete 9/07/2010
Date Extracted (Metals)		15/07/2010
Date Analysed (Metals)		15/07/2010
Arsenic	mg/kg	<3
Cadmium	mg/kg	<0.3
Chromium	mg/kg	8.2
Lead	mg/kg	4
Nickel	mg/kg	5.7

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference	UNITS -----	SE79833-1 GTP100707 0-1, Tank Q - inner-1	SE79833-2 GTP100707 0-2, Tank Q - inner-2	SE79833-3 GTP100707 0-3, Tank Q - inner-3	SE79833-4 GTP100707 0-4, Tank Q - outer-1	SE79833-5 GTP100707 0-5, Tank Q - outer-2
Sample Matrix Date Sampled	-----	Concrete 9/07/2010	Concrete 9/07/2010	Concrete 9/07/2010	Concrete 9/07/2010	Concrete 9/07/2010
Date Extracted (Mercury)		15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010
Date Analysed (Mercury)		15/07/2010	15/07/2010	15/07/2010	15/07/2010	15/07/2010
Mercury	mg/kg	0.06	0.09	<0.05	<0.05	<0.05

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference	UNITS -----	SE79833-6 GTP100707 0-6, Tank Q - outer-3
Sample Matrix Date Sampled	-----	Concrete 9/07/2010
Date Extracted (Mercury)		15/07/2010
Date Analysed (Mercury)		15/07/2010
Mercury	mg/kg	<0.05

Method ID	Methodology Summary
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
USEPA 8270	USEPA 8270 GCMS.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD
OC Pesticides in Soil						
Date Extracted				15/07/2010	SE79833-1	15/07/2010 15/07/2010
Date Analysed				16/07/2010	SE79833-1	16/07/2010 16/07/2010
Hexachlorobenzene (HCB)	mg/kg	0.1	SEO-005	<0.1	SE79833-1	190 180 RPD: 5
2,4,5,6-Tetrachloro-m-xylene (Surrogate)	%	0	SEO-005	100	SE79833-1	# #

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
8270 SVOC SGS NATIONAL								
Date Extracted (SVOC)				15/07/2010	[NT]	[NT]	LCS	15/07/2010
Date Analysed (SVOC)				15/07/2010	[NT]	[NT]	LCS	15/07/2010
1,2,4-Trichlorobenzene	mg/kg	0.5	USEPA 8270	<0.5	[NT]	[NT]	[NR]	[NR]
1,2,4,5-Tetrachlorobenzene	mg/kg	0.5	USEPA 8270	<0.5	[NT]	[NT]	LCS	84%
Pentachlorobenzene	mg/kg	0.5	USEPA 8270	<0.5	[NT]	[NT]	[NR]	[NR]
p-terphenyl-D14 (Surrogate)	%	10	USEPA 8270	<10	[NT]	[NT]	LCS	83%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				15/07/2010	[NT]	[NT]	LCS	15/07/2010
Date Analysed (Metals)				15/07/2010	[NT]	[NT]	LCS	15/07/2010
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	92%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	98%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	96%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	95%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	94%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				15/07/2 010	[NT]	[NT]	LCS	15/07/2010
Date Analysed (Mercury)				15/07/2 010	[NT]	[NT]	LCS	15/07/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	99%

Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested

[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

#OC - SURROGATE NOT REPORTED FOR SAMPLES#1,6 DUE TO SAMPLE MATRIX INTERFERENCE.

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



ANALYTICAL REPORT

23 July 2010

Orica GTP Plant

16-20 Beauchamp Road

MATRAVILLE

NSW 2036

Attention: Sylvia Huo

Your Reference: GTP1007126

Our Reference: SE79976

Samples: 6 Concretes

Received: 20/7/10

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

Sample Receipt: Angela Mamalicos

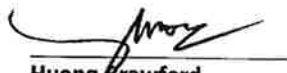
AU.SampleReceipt.Sydney@sgs.com

Production Manager: Huong Crawford

Huong.Crawford@sgs.com

Results Approved and/or Authorised by:


Ly Kim Ha
Organics Signatory


Huong Crawford
Metals Signatory



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Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
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OC Pesticides in Soil Our Reference: Your Reference	UNITS -----	SE79976-1 GTP100712 6-1, Tank P outer-1	SE79976-2 GTP100712 6-2, Tank P outer-2	SE79976-3 GTP100712 6-3, Tank P outer-3	SE79976-4 GTP100712 6-4, Tank P inner-1	SE79976-5 GTP100712 6-5, Tank P inner-2
Sample Matrix Date Sampled	-----	Concrete 19/07/2010	Concrete 19/07/2010	Concrete 19/07/2010	Concrete 19/07/2010	Concrete 19/07/2010
Date Extracted		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Date Analysed		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Hexachlorobenzene (HCB)	mg/kg	<0.1	0.8	<0.1	11	23
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	105	113	104	#	#

OC Pesticides in Soil Our Reference: Your Reference	UNITS -----	SE79976-6 GTP100712 6-6, Tank P inner-3
Sample Matrix Date Sampled	-----	Concrete 19/07/2010
Date Extracted		21/07/2010
Date Analysed		21/07/2010
Hexachlorobenzene (HCB)	mg/kg	27
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	#



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8270 SVOC SGS NATIONAL Our Reference: Your Reference	UNITS -----	SE79976-1 GTP100712 6-1, Tank P outer-1	SE79976-2 GTP100712 6-2, Tank P outer-2	SE79976-3 GTP100712 6-3, Tank P outer-3	SE79976-4 GTP100712 6-4, Tank P inner-1	SE79976-5 GTP100712 6-5, Tank P inner-2
Sample Matrix Date Sampled	-----	Concrete 19/07/2010	Concrete 19/07/2010	Concrete 19/07/2010	Concrete 19/07/2010	Concrete 19/07/2010
Date Extracted (SVOC)		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
Date Analysed (SVOC)		21/07/2010	21/07/2010	21/07/2010	21/07/2010	21/07/2010
1.2.4-Trichlorobenzene	mg/kg	<0.5	1.1	<0.5	13	27
1.2.4.5-Tetrachlorobenzene	mg/kg	<0.5	<0.5	<0.5	3.1	7.0
Pentachlorobenzene	mg/kg	<0.5	<0.5	<0.5	6.0	16
p-terphenyl-D14 (Surrogate)	%	100	92	93	75	77

8270 SVOC SGS NATIONAL Our Reference: Your Reference	UNITS -----	SE79976-6 GTP100712 6-6, Tank P inner-3
Sample Matrix Date Sampled	-----	Concrete 19/07/2010
Date Extracted (SVOC)		21/07/2010
Date Analysed (SVOC)		21/07/2010
1.2.4-Trichlorobenzene	mg/kg	50
1.2.4.5-Tetrachlorobenzene	mg/kg	11
Pentachlorobenzene	mg/kg	25
p-terphenyl-D14 (Surrogate)	%	72



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Metals in Soil by ICP-OES Our Reference: Your Reference	UNITS -----	SE79976-1 GTP100712 6-1, Tank P outer-1	SE79976-2 GTP100712 6-2, Tank P outer-2	SE79976-3 GTP100712 6-3, Tank P outer-3	SE79976-4 GTP100712 6-4, Tank P inner-1	SE79976-5 GTP100712 6-5, Tank P inner-2
Sample Matrix Date Sampled	-----	Concrete 19/07/2010	Concrete 19/07/2010	Concrete 19/07/2010	Concrete 19/07/2010	Concrete 19/07/2010
Date Extracted (Metals)		22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Date Analysed (Metals)		22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Arsenic	mg/kg	<3	<3	<3	4	<3
Cadmium	mg/kg	<0.3	<0.3	<0.3	1.0	<0.3
Chromium	mg/kg	10	9.9	9.3	68	50
Lead	mg/kg	5	5	5	12	4
Nickel	mg/kg	5.8	6.2	5.8	53	33

Metals in Soil by ICP-OES Our Reference: Your Reference	UNITS -----	SE79976-6 GTP100712 6-6, Tank P inner-3
Sample Matrix Date Sampled	-----	Concrete 19/07/2010
Date Extracted (Metals)		22/07/2010
Date Analysed (Metals)		22/07/2010
Arsenic	mg/kg	<3
Cadmium	mg/kg	0.3
Chromium	mg/kg	52
Lead	mg/kg	4
Nickel	mg/kg	37



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Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference	UNITS -----	SE79976-1 GTP100712 6-1, Tank P outer-1	SE79976-2 GTP100712 6-2, Tank P outer-2	SE79976-3 GTP100712 6-3, Tank P outer-3	SE79976-4 GTP100712 6-4, Tank P inner-1	SE79976-5 GTP100712 6-5, Tank P inner-2
Sample Matrix Date Sampled	-----	Concrete 19/07/2010	Concrete 19/07/2010	Concrete 19/07/2010	Concrete 19/07/2010	Concrete 19/07/2010
Date Extracted (Mercury)		22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Date Analysed (Mercury)		22/07/2010	22/07/2010	22/07/2010	22/07/2010	22/07/2010
Mercury	mg/kg	0.38	0.50	0.50	0.30	0.28

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference	UNITS -----	SE79976-6 GTP100712 6-6, Tank P inner-3
Sample Matrix Date Sampled	-----	Concrete 19/07/2010
Date Extracted (Mercury)		22/07/2010
Date Analysed (Mercury)		22/07/2010
Mercury	mg/kg	0.87



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Method ID	Methodology Summary
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
USEPA 8270	USEPA 8270 GCMS.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD
OC Pesticides in Soil						
Date Extracted				21/07/2010	SE79976-1	21/07/2010 21/07/2010
Date Analysed				21/07/2010	SE79976-1	21/07/2010 21/07/2010
Hexachlorobenzene (HCB)	mg/kg	0.1	SEO-005	<0.1	SE79976-1	<0.1 <0.1
2,4,5,6-Tetrachloro-m-xylene (Surrogate)	%	0	SEO-005	99	SE79976-1	105 106 RPD: 1

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
8270 SVOC SGS NATIONAL								
Date Extracted (SVOC)				21/07/2010	SE79976-1	21/07/2010 21/07/2010	LCS	21/07/2010
Date Analysed (SVOC)				21/07/2010	SE79976-1	21/07/2010 21/07/2010	LCS	21/07/2010
1,2,4-Trichlorobenzene	mg/kg	0.5	USEPA 8270	<0.5	SE79976-1	<0.5 <0.5	[NR]	[NR]
1,2,4,5-Tetrachlorobenzene	mg/kg	0.5	USEPA 8270	<0.5	SE79976-1	<0.5 <0.5	LCS	77%
Pentachlorobenzene	mg/kg	0.5	USEPA 8270	<0.5	SE79976-1	<0.5 <0.5	[NR]	[NR]
p-terphenyl-D14 (Surrogate)	%	10	USEPA 8270	80	SE79976-1	100 98 RPD: 2	LCS	85%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				22/07/2010	[NT]	[NT]	LCS	22/07/2010
Date Analysed (Metals)				22/07/2010	[NT]	[NT]	LCS	22/07/2010
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	106%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	105%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	106%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	105%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	105%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				22/07/2010	[NT]	[NT]	LCS	22/07/2010
Date Analysed (Mercury)				22/07/2010	[NT]	[NT]	LCS	22/07/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	108%



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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting

[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

OC SURROGATE NOT REPORTED FOR SAMPLES 4,5,6 DUE TO SAMPLES MATRIX INTERFERENCE.

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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ANALYTICAL REPORT

Attention: Mal Thatcher
Address: ORICA
HCB Repackaging Plant
cc: Domenic Cappelli, Tim Nightingale,
Tony Jordan

GTP Reference No: GTP1009169
Number of samples: 3
Date received: 22/09/2010
Date reported: 05/10/2010

Request:

Determination of semivolatile chlorinated hydrocarbons in soil, cement and carbon ex Store E Tank 6.

Sample Description & Analytical methods:

The samples were extracted with a mixture of hexane and acetone using an ultrasonic device and the extracts were then analysed using GCMSD (Method 04-036).

Analytical Results:

Analyte	Unit	1009169-1	1009169-2	1009169-3
		Store E tank 6 cement	Store E tank 6 soil	Store E tank 6 carbon
		22/09/2010	22/09/2010	22/09/2010
Hexachloroethane	mg/kg	1.0	3.5	0.8
1,2,4-Trichlorobenzene	mg/kg	<0.2	<0.2	<0.2
Hexachlorobutadiene	mg/kg	4.7	11	1.5
1,2,4,5-Tetrachlorobenzene	mg/kg	<0.2	<0.2	<0.2
Pentachlorobenzene	mg/kg	<0.2	1	<0.2
Hexachlorobenzene	mg/kg	63	610	9.7

Yours Sincerely
ORICA Groundwater Treatment Plant

Sylvia Huo

Analytical Chemist

ANALYTICAL REPORT

Attention:	Mal Thatcher	GTP Reference No:	GTP1009117 /125
Address:	ORICA	Number of samples:	10
	HCB Repackaging Plant	Date received:	16 & 17/09/2010
cc:	Domenic Cappelli, Tim Nightingale, Tony Jordan	Date reported:	27/09/2010

Request:

Determination of semivolatile chlorinated hydrocarbons in the following samples:

Soil – 2 jars
Concrete – 2 jars
Reinforcing metal bars– 3 pieces
Aluminium pipe – 1 piece
Hose – 1 piece
Large metal piece cut from tank 5 – 1 piece

Sample Description & Analytical methods:

The concrete, soil, metal bars and hose were extracted with a mixture of hexane and acetone using an ultrasonic device and the extracts were then analysed using GCMSD (Method 04-036).

The metal piece cut from tank 5 and aluminium pipe were wiped with glass fibre filters soaked with hexane. The filters were then extracted with hexane and the extracts analysed by GCMSD. The mass of each target analyte on the surface is converted to the concentration on weight basis (Method 07-019).

Analytical Results:

Analyte	Unit	1009117-1	1009117-2	1009117-3	1009117-4
		Store E soil-1	Store E soil-2	Store E concrete -1	Store E concrete -2
		16/09/2010	16/09/2010	16/09/2010	16/09/2010
Hexachloroethane	mg/kg	2.0	2.2	<0.2	<0.2
1,2,4-Trichlorobenzene	mg/kg	<0.2	<0.2	<0.2	<0.2
Hexachlorobutadiene	mg/kg	4.8	5.8	<0.2	<0.2
1,2,4,5-Tetrachlorobenzene	mg/kg	<0.2	<0.2	<0.2	<0.2
Pentachlorobenzene	mg/kg	<0.2	<0.2	<0.2	<0.2
Hexachlorobenzene	mg/kg	1200	1200	0.6	0.5

Analyte	Unit	1009125-1	1009125-2	1009125-3	1009125-7
		Metal bar 1	Metal bar 2	Metal bar 3	Hose
		17/09/2010	17/09/2010	17/09/2010	17/09/2010
Hexachloroethane	mg/kg	<0.2	<0.2	<0.2	0.5
1,2,4-Trichlorobenzene	mg/kg	<0.2	<0.2	<0.2	<0.2
Hexachlorobutadiene	mg/kg	<0.2	<0.2	<0.2	4.1
1,2,4,5-Tetrachlorobenzene	mg/kg	<0.2	<0.2	<0.2	0.2
Pentachlorobenzene	mg/kg	<0.2	<0.2	<0.2	1.4
Hexachlorobenzene	mg/kg	0.3	1.8	<0.2	260

Analyte	Unit	1009125-4	1009125-6
		Aluminium pipe	Metal square slab
		17/09/2010	17/09/2010
Hexachloroethane	mg/kg	<0.2	<0.2
1,2,4-Trichlorobenzene	mg/kg	<0.2	<0.2
Hexachlorobutadiene	mg/kg	<0.2	<0.2
1,2,4,5-Tetrachlorobenzene	mg/kg	<0.2	<0.2
Pentachlorobenzene	mg/kg	<0.2	<0.2
Hexachlorobenzene	mg/kg	5.7	<0.2

Yours Sincerely
ORICA Groundwater Treatment Plant

Sylvia Huo

Analytical Chemist